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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/497,508	02/04/2000 Jin Jang		8733.213.00	7572
	7590 09/12/200 <b>DNG &amp; ALDRIDG</b> E L	EXAMINER		
1900 K STREE WASHINGTO		LOUIE, WAI SING		
WASHINGTO	N, DC 20000	ART UNIT	PAPER NUMBER	
		2814		
		MAIL DATE	DELIVERY MODE	
			09/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application	oplication No. Applicant(s)						
		09/497,508		JANG ET AL.					
Office Action Summary			Examiner		Art Unit				
			Wai-Sing Lou	ie	2814				
Period fo	The MAILING DATE of this commui r Reply	nication appe	ars on the co	over sheet with the c	correspondence ad	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) 又	Responsive to communication(s) file	ed on 17 Auc	aust 2007						
•	Responsive to communication(s) filed on <u>17 August 2007</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.								
<b>'</b> —		<i>'</i> —			secution as to the	e merits is			
٥,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) <u>9-11</u> is/are pending in the	application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	6)⊠ Claim(s) <u>9-11</u> is/are rejected.								
-	Claim(s) is/are objected to.								
	Claim(s) are subject to restri	ction and/or	election requ	ıirement.					
Applicati	on Papers								
9)□ .	The specification is objected to by th	ne Examiner.							
•	The drawing(s) filed on is/are			objected to by the I	Examiner.				
, <b>—</b>			•	-					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2)  Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date	PTO-948)	4) 5) 6)	<b>=</b>	ate				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 9-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki et al. (US 6,365,933).

With regard to claim 9, Yamazaki et al. disclose a semiconductor device (col. 4, line 58 et seq. and fig. 1) having an active layer (crystalline silicon is polysilicon see col. 1, lines 28-33) 110 on a buffer layer 102 that is on a substrate 101 (col. 6, lines 5-17 and fig. 1d), the polycrystalline film 110 containing nickel metal of which density ranges at least 5x10<sup>17</sup> atoms/cm³ (col. 7, lines 7-13), and an electrical conductivity activation energy of ½ of silicon (Energy gap @300K for silicon is 1.124 eV, see col. 9, line 19), the crystalline silicon film comprising a plurality of needle-shaped silicon crystallites (col. 5, lines 66-67), where the crystalline silicon film 110 is formed by crystallizing an amorphous silicon film containing nickel metal by a thermal treatment carried in a temperature of about 500 °C (col. 5, lines 60-65) and applying an electric field with metal electrodes (col. 9, lines 10-15), and where the needle-shaped silicon crystallites are formed by movement of a silicide of the metal (col. 7, lines 43-49).

With regard to claim 10, Yamazaki et al. disclose the crystalline silicon film includes Au or Co instead of nickel metal (col. 5, lines 48-51).

With regard to claim 11, Yamazaki et al. disclose the nickel metal works as a catalyst (promoting) during the crystallization (col. 3, lines 24-32).

## Response to Arguments

Applicant's arguments with respect to claims 9-11 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is 571-272-1709. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2814

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wai-Sing Louie/ Primary Examiner, Art Unit 2814

Wsl

September 5, 2007.